

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FEB 06 2015

CONSERVATION DIVISION
WICHITA, KS

Type Test:

- Open Flow
 Deliverability

(See Instructions on Reverse Side)

Test Date: **JANUARY 27 2015**

API No. 15- **007-20,615-0000**

Company: RED CEDAR OIL		Lease: RUSK		Well Number: B1	
County: BARBER	Location: NW	Section: 7	TWP: 32S	RNG (EW): 15W	Acres Attributed: 80
Field: PERRY RANCH		Reservoir: FORT SCOTT		Gas Gathering Connection: ONEOK	
Completion Date: 1978 MAY 12		Plug Back Total Depth: 4934		Packer Set at: OPEN HOLE 4818-4934	
Casing Size: 4.5	Weight: 10.5	Internal Diameter: 4.818	Set at: 4786	Perforations To: 4790	
Tubing Size: 2.375	Weight: 4.7	Internal Diameter: 2.375	Set at: 4.7	Perforations To: 4.7	
Type Completion (Describe): SINGLE		Type Fluid Production: WTR		Pump Unit or Traveling Plunger? Yes / No: PUMP UNIT	
Producing Thru (Annulus / Tubing): ANNULUS		% Carbon Dioxide: 0		% Nitrogen: 0 Gas Gravity - G _s : 0	
Vertical Depth (H): 4807		Pressure Taps: FLANGE		(Meter Run) (Prover) Size: 3 X .375	
Pressure Buildup: Shut in JANUARY 25 2015 at 5:30 (AM) <input checked="" type="radio"/> (PM) Taken _____ 19 _____ at _____ (AM) (PM)					
Well on Line: Started JANUARY 27 2015 at 5:45 (AM) <input checked="" type="radio"/> (PM) Taken _____ 19 _____ at _____ (AM) (PM)					

OBSERVED SURFACE DATA

Duration of Shut-in _____ hours

Static / Dynamic Property	Orifice Size inches	Casing one: Meter or Prover Pressure psig	Pressure Differential in (h) inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _i) or (P _e)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						135					
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F ₀) (F ₁) Mcfd	Casing one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_w \times H_w}$	Gravity Factor F _g	Flowing Temperature Factor F _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_e)² = _____ : (P_w)² = _____ : P_e = _____ % (P_e - 14.4) + 14.4 = _____ : (P_w)² = 0.207 (P_e)² = _____

$(P_e)^2 - (P_w)^2$ or $(P_i)^2 - (P_o)^2$	$(P_e)^2 - (P_w)^2$	Choose formula 1 or 2: 1. $P_e^2 - P_w^2$ 2. $P_e^2 - P_o^2$ divided by: $P_e^2 - P_w^2$	LOG of formula 1. or 2. and divide by: $P_e^2 - P_w^2$	Backpressure Curve Slope = "n" ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog Mcfd

Open Flow Mcfd @ 14.65 psia Deliverability Mcfd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 27 day of JANUARY 2015, 19__.

RED CEDAR OIL LLC
 For Company
DALE WALKER 30991
 Checked by

Witness (if any) _____
 For Commission _____

I declare under penalty or perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator RED CEDAR OIL LLC and that the foregoing information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon gas production records and records of equipment installation and/or of type completion or upon use of the gas well herein named.

I hereby request a permanent exemption from open flow testing for the Rusk B1 gas well on the grounds that said well:

(Check one)

- is a coalbed methane producer
- is cycled on plunger lift due to water
- is a source of natural gas for injection into an oil reservoir undergoing ER
- is on vacuum at the present time; KCC approval Docket No. _____
- is incapable of producing at a daily rate in excess of 150 mcf/D

Date: JANUARY 27 2015

Signature: Dale Walker

Title: OPERATOR 30991

Instructions: All active gas wells must have at least an original G-2 form on file with the conservation division. If a gas well meets the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to obtain a testing exemption.

At some point during the succeeding calendar year, wellhead shut-in pressure shall be measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under "observed surface data." Shut-in pressure shall thereafter be reported yearly in the same manner.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than thirty (30) days after the taking of the pressure reading. The form must be signed and dated on the front side as though it was a verified report of test results.